

**PAT-NO:** JP360088663A  
**DOCUMENT-IDENTIFIER:** JP 60088663 A  
**TITLE:** PIVOT DEVICE FOR WIPER LINKAGE  
**PUBN-DATE:** May 18, 1985

**INVENTOR-INFORMATION:**

NAME	COUNTRY
ITO, ISAO	

**ASSIGNEE-INFORMATION:**

NAME	COUNTRY
NIPPON DENSO CO LTD	N/A

**APPL-NO:** JP58196469  
**APPL-DATE:** October 19, 1983

**INT-CL (IPC):** B60S001/34

**US-CL-CURRENT:** 74/42

**ABSTRACT:**

**PURPOSE:** To make a distinct improvement in coupling strength between a lever and a shaft, by installing a knurling tool on the circumference of the shaft of a wiper linkage and, after pressing this shaft part in a lever hole, caulking a shaft end part, then coupling the shaft and the lever together.

**CONSTITUTION:** A flange 3 being larger in diameter than the outer diameter of a shaft base part 1' and a shaft end part 1''' linking up with this flange 3 and being almost equal diameter to the shaft base part 1' both are formed in one end of a shaft 1, while a knurled projection 2 is formed in the whole circumference of an end face of the said shaft end part 1'''. In addition, another knurled projection 6 is also formed in a surface of the flange 3. After the shaft end part 1''' is pressed in a hole of a lever 4, an opposite surface of the shaft end part 1''' is caulked whereby the shaft 1 and the lever 4 are coupled together.

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